

EUROCONTROL NETWORK MANAGER RELEASE NOTES

Planned for implementation 2020-2021

Edition: 3.1 Edition Validity Date: 04/11/2020





IMPORTANT NOTIFICATIONS

- Minor NM24.0.1 release:
 - o Deployment will take place on 10/11/2020 22h00-23h30 UTC (5.3)
 - No CHMI change: no new CHMI to download (5.3)
 - o NM recommends to use the new URL (link) to NES (n-CONECT) (5.4.1)

DOCUMENT CHARACTERISTICS

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EUROCONTROL NETWORK MANAGER RELEASE NOTES	Planned for implementation 2020-2021		3.1		04/11/2020
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This document describes the new or modified functions (affecting external users) delivered by the Network Manager as part of the Network Manager software releases.					
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Author(s)					
Network Manager Release Coordinator					
Contact Perso	Contact Person(s) Tel/email Unit				Unit
Network Manager Release Coordinator		nm.r	eleases@eurocontrol.	<u>int</u>	NM/ACD

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Edition History

The following table records the complete history of the successive editions of the present document.

Edition No.	Edition Validity Date	Reason
1.0	03/12/2019	First edition - NM24.0 content and initial deployment plan.
2.0	07/09/2020	No NM24.5 release will take place – p.44
3.0	01/10/2020	NM24.0.1 content and deployment plan – p.40
3.1	04/11/2020	NM24.0.1 deployment schedule – p.42 No CHMI change: no new CHMI to download – p.42 New URL (link) to NES (n-CONECT) – p.43

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1 INTRODUCTION

This document describes the new or modified functions delivered by the Network Manager as part of the Network Manager software releases which affect external users.

The purpose of this document is to give users of Network Manager Services advance notice of modifications to enable them to anticipate any impact on their operational procedures and/or systems.

The Network Manager Releases include many changes arising from different sources and coordinated via various fora. They allow the implementation of new functionalities to cope with Network Manager Directorate business plans.

The Network Manager Release Notes are organised as a rolling document describing the functions currently under development for future releases. Other functions which are being considered for possible development but which are not yet ready to be presented are not included in this document.

If you wish to automatically receive the new versions of the Release Notes (and any communication related to the NM Releases) by email, please register at:

http://www.eurocontrol.int/network-operations/self-registration-form

(Choose "Subscribe to receive e-mail notifications when the NM Release Notes are updated" in the field "purpose of the request").

The current document is available at:

https://www.eurocontrol.int/library?f%5B0%5D=activitys%3A774

(Select the "Release and deployment documents" as Product category)

Or at: https://www.eurocontrol.int/publication/network-manager-release-notes-planned-implementation-2020-2021

Any questions or comments related to the Network Manager Releases may be sent to: nm.releases@eurocontrol.int

2 Releases content

Only FBs or CRs that have an impact on operations for external users are listed below.

2.1 NM24.0

Programme	Functional Block	NM24.0
Airport-Network	Integration §3.1	
FB1027	AOP/NOP Integration - Phase IV	p.24
FB1066	Tower Update A-DPI evolution	p.25
Airspace Manage	ement and Advanced FUA §3.2	
FB1064	ASM - Advanced FUA process improvement	p.26
CTM (Cooperativ	e Traffic Management) §3.3	
FB987	STAM further developments	p.27
FB1070	Target Time improvements	p.28
FB1072	Predictability improvements	p.30
EAIMS (European	n ATM Information Management Service) §3.4	
FB1086	CACD validation of RAD	p.31
FPFDE (Flight Pl	an and Flight Data Evolution) §3.5	
FB1074	FF-ICE filing Function - file eFPL	p.31
Free Route Airsp	ace (FRA) §3.6	
FB1084	FRA improvements	p.32
n-CONECT	§3.7	
FB1095	RAD Full Completion	p.33
NCO-14974	Improve presentation of updates in both exported Excel files and RAD application	p.21
Operations Impre	ovements §3.8	
FB1042	ATFM messaging for AOs via B2B	p.34
I2_118832	Retrieving original ADES for diverted flight via B2B	p.35
I2_118817	Problem when updating the EOBT with a second FPL	p.10
CR_047923	Change ACH sending parameter	p.10
FB1059	ATFCM Domain improvements	p.36
FB1085	eHelpDesk improvements	p.38
CR_047018	Delete old group rerouting indicators from a flight when applying a similar group rerouting	p.39
CR_047810	AOWIR Apply available via B2B	p.19
CR_047936	Adaptation of NOP PORTAL for NES MAP - phase-out of Flash	p.20
_ FB1067	iDAP / Future Helpdesk	p.18
CR_047338	Auto-refresh (poll) only the visible tab in CHMI	p.22
CR_048506	ATFM regulations by Airport terminal	p.17

2.2 NM24.0.1

Programme	Functional Block	NM24.0.1
n-CONECT	§3.7	
FB1112	Alignment of Information Regions Worldwide	p.43

2.3 Functional Block description

Each Functional Block is described in a table with the following fields. All descriptions are focused from an external NM point of view.

rom an external NM	om an external NM point of view.		
FB: Number ar	nd name of the Functional Block		
Users impacted	The categories of NM Users which are impacted by the new features of the Functional Block: U1. Flow Manager (FMP) U2. Airspace Manager (AMC) U3. Airspace User (Civil) U4. Airspace User (Military) U5. ENV data provider U6. Management (eg crisis management, performance management) U7. Post-ops analyst U8. AO or CFSP U9. CAA, EASA U10. Non-CDM Airport U13. CDM-Airport U15. Advanced ATC TWR Airport U11. ARO U12. Internal NM U14. Air Navigation Service Provider (ANSP) U0. Other		
Application impacted	The NM application(s) or service(s) that will be impacted by the Functional Block: A1. CHMI A2. CIFLO, CIAO A3. CIAM A4. CACD A5. Flow management systems (Predict, ETFMS) A6. FPL (IFPS) A7. Datawarehouse (NMIR) A8. CCAMS A9. CSST A10. NOP Portal A11. NM B2B A12. ASM Tools A13. NMVP A14. n-CONECT A15. n-CONECT: AIRSPACE@NES A16. n-CONECT: CAL@NES		
Objective	A0. Other Operational objectives of the Functional Block.		
Description	Description of the main features delivered to external NM users.		

	Some FBs (mostly the ones belonging to "Operations Improvements" Programme) may content the CR (Change Request) number of the new features (like CR_xxxxxx). Please refer to this CR number when requesting information to NMD.
Impact for external users	Technical or operational impact the Functional Block may have on the external users. 10. No impact. 11. Impact on procedures. 12. Impact on Human-Machine interface. 13. Impact on users' systems. 14. Other impact.
Impact description	Description of the impact for the external users.
Service reference	Hyperlink toward the NM activity(ies), service(s) and product(s) that will be impacted by this Functional Block. The global catalogue is available at the following address: https://www.eurocontrol.int/what-we-offer
Impact on Services Specifications	Will the FB or CR have an in impact on the NM Services Specifications? S0. Assessment to be performed or on-going. S1. The FB will not have any impact on the NM Services Specifications. S2. The FB will have an impact on the NM Services Specifications. Nota: Services Specifications documents will be made available at a later stage.
Operational deployment plan	The way the Functional Block will be deployed: D1. FB will be deployed in Operation along with the release migration. FBs deployed as D1 normally do not include new or changed ATFCM procedures. D2. FB will be subject to a Pilot Phase (Operational Trial) followed by a Go/NoGo decision for ops deployment after Release Migration. New ATFCM procedures or changed ATFCM procedures are normally only issued as a result of D2 deployment. These are issued via Ops Instructions after the consultation process agreed with ODSG. D3. FB will be subject to R&D ops validation (e.g. SESAR). D4. The analysis part of the FB will be done in the Release and the development will be candidate for the next Release.
Users' testing	 Depending on the Operational deployment plan: If D1: O1: The FB is planned to be part of the NM Release OPT. O2: The FB will not be part of the NM Release OPT. If D2 or D3: provide additional information on the activities that will take place (pilot phase, ops validation phase, etc.)
Documentation publication	The documentations that will be updated following the deployment of the Functional Block.

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2.4 Change to NM Services Specifications

Any change to the NM Services Specifications will be provided in this paragraph.

• The Service Specifications documents will be made available at a later stage.

3 Network strategic projects

You will find below a short description of each Programme that the Network Manager developments are serving.

3.1 Airport-Network integration

The programme aims at facilitating the better integration of airports and its operations with the ATM network. This includes the following areas:

- Connection of A-CDM and Advanced Tower airports to the NM systems.
- Provision of pre-tactical and tactical information to the main NM stakeholders (Airport Operators, Airspace Users and ANSPs) through the NOP portal and future web services.
- Provision of web service based tools for post-operational performance assessment to airports.
- Contribution to events management processes and information provision as to enhance the operational picture through the before-mentioned means.
- Development of new services related to deliverables becoming mature from SESAR research activities (AOP/NOP integration, APOC, Target Times for airports, etc.)

3.2 Airspace management and advanced FUA

ASM and Advanced FUA are major components of the Network Strategy Plan (NSP) 2015/2019. The project contributes directly to the NSP Strategic Objective 3 (SO3) "Implement a seamless and flexible airspace enabling Free Routes", together with the "Free Route Airspace" network strategic project.

The Project will aim at:

- Introducing performance driven operations based on the management of Airspace Configurations in fixed route network and FRA environments.
- Providing processes that support the use of more dynamic and flexible elements.
- Describing a seamless, CDM based process with an advanced real time management of Airspace Configurations as well as a continuous sharing of information among all ATM partners enabled by advanced technology.

The main Lines of Improvement of the Project are:

- Airspace Configuration Definition and Operational Deployment.
- A Collaborative Decision Making Process (ASM/ATFCM/ATC integration).
- The Rolling Process.
- ASM solutions to improve network performance.
- ASM operations in FRA environments.
- ASM system support and data management.
- ASM post ops and performance planning.

3.3 CTM (Cooperative Traffic Management)

The CTM Strategic Project aims to optimise traffic delivery through a transparent cooperative approach involving all operational stakeholders in the ATM network: ATC-, Airport-, AU (Airspace Users)- and NM- operations. The CTM Strategic Project addresses the interface between local and network operations and aims to improve tactical coordination processes, enabling the application of flight and flow-specific targeted ATFCM measures, including Target Time measures.

CTM development areas focus on:

- AU's collaborative processes, improving network situational awareness to AU in order to include preferred targeted measure options into network coordination processes.
- Targeted Measures, specific to only certain flights and flows, minimizing the need for inefficient global ATFM measures.

- Dynamic Network Coordination, supported by continuous information sharing of local and network information, and by digital workflow processes with automated system support where feasible.
- Network Best Measures, continuously simulating impact assessments for single or combined proposed measures optimising local and network performance.

3.4 EAIMS (European ATM Information Management Service)

The European ATM Information Management Service (EAIMS) aims at ensuring access to a consolidated, consistent and operationally validated data in a seamless and transparent way as from a single access point to support ARO/AIS/ASM/ATFCM/ATC, flight operations and airport operations.

Through EAIMS, the end user will be provided access to all the required, consolidated, consistent and operationally validated data in a seamless and standardised way from a single access point, which will enable ASM/ATFCM/ATC, flight operations and airport operations.

3.5 FPFDE (Flight Plan and Flight Data Evolution)

This FPFDE project encompasses the flight planning developments associated with the introduction of FF-ICE, VFR, OAT and Flight Object. Each of these areas of development have their own specifics with regard to a deployment within NM and the European area of operation.

It's the role of the FPFDE project to coordinate their implementation with the relevant stakeholders. FF-ICE/1 enhances the flight plan data exchanges facilitating a CDM process between AOs/CFSPs, the Network Manager and ANSPs in the pre-departure phase of the flight, with the aim of improving consistency and the accuracy of 4D flight trajectories maintained by the different stakeholders.

In addition to trajectory related information it facilitates an enrichment of the flight plan content, such as operator preferences or advanced CNS capabilities. It also enables introduction of automated exchanges through the use of modern communication methods and technologies, such as B2B and SWIM.

FF-ICE/1 is the very first step on the path towards enabling trajectory based operations.

3.6 FRA (Free Route Airspace)

Free route airspace is a specified airspace within which users may freely plan a route between a defined entry point and a defined exit point, with the possibility to route via intermediate (published or unpublished) waypoints, without reference to the ATS route network, subject to airspace availability. Within this airspace, flights remain subject to air traffic control.

The project supports the implementation of the FRA concept, as described in the European Route Network Improvement Plan Part 1 across the NM area. It also forms an integral part of Network Operations Plan (NOP) for the forthcoming five years and is expected to make a major contribution to the Network Performance Plan (NPP). It manages the required system changes in NM and undertakes airspace design, simulation and validation activities required for FRA implementation as well monitoring and reporting on implementation progress.

3.7 n-CONECT

The n-CONECT (network-COmmoN Enhanced Collaborative ATM) Programme corresponds to the "NM Ops Service Platform" Strategic Project identified in the NSP (Network Strategy Plan), providing a global vision for the NM service interfaces.

The initial focus of n-CONECT is a planned convergence to single, redesigned HMI for all users, fit for purpose and flexible enough to meet the needs of the different user roles (both internal to NMOC and external).

Through a sequence of projects, the programme will develop services and tools to:

- Ensure access to the Network view to all Stakeholders involved in evolution of NM functions and future ATM;
- Make Network information & decision flows available to support operational CDM between different Stakeholders, across the Network and across the ATFCM phases; and
- · Take advantage of new technologies.

n-CONECT will deliver in the following 3 areas:

- B2C interface
- B2B services
- Service management developments in support of both the B2B and B2C services

3.8 Operations improvements

3.8.1 Domain improvements

Every Release delivers improvements to the NM Operational Domains:

- ATFCM Domain.
- Flight Planning Domain.
- Airspace Data Domain.

3.8.2 Transponder Code Function (CCAMS)

In accordance with the Network Manager mandate for the Transponder Code Function (TCF), CCAMS is operated on behalf of states as one of the possible technological solutions supporting the unambiguous and continuous identification of aircraft.

The final goal is to have the use of the downlinked aircraft identification (e.g. through Mode S) operational in the whole area with CCAMS as a back-up technology. Therefore CCAMS is implemented currently in 18 states and the number of users is expected to increase in the coming years.

3.9 Performance programme

The ATFM, Network Manager and Performance IRs stress the need for Monitoring and Reporting (M&R) of performance. The aim of this Programme is to provide the data and reporting (including datawarehouse and NMIR) that address the M&R needs.

The Programme includes a wide variety of activities such as: the adaptation of algorithms or databases, creation of new data sets, modification of interfaces graphical identity, and new reports following users' requests. The changes allow the NM to fulfil its commitment on M&R, support other stakeholders with their M&R responsibilities and prepare NM for next SES reference period.

4 Release NM24.0

4.1 Important notifications related to NM24.0 migration

4.1.1 NM24.0 migration is postponed to 23/06/2020

Important notification: Following the need to ensure business continuity with respect to the COVID-19, NM plans to postpone NM24.0 migration to the 23/06/2020 (it will last one week, like for any Release).

To be noted:

- NM24.0 CHMI is available for download (§4.2.4)
- New migration plan is available (§4.2.4).
- NM24.0 OPT is extended to the 22/06/2020.

4.1.2 Additions to NM24.0 scope - 07/04/2020

The delay in NM24.0 migration has created an opportunity for NM to add functionalities into NM24.0.

A Webinar (Webex presentation) presenting the <u>addition</u> of scope took place on the 19/05/2020. Slides and recording are available at: https://www.eurocontrol.int/event/eurocontrols-nm240-release-updated-scope-webinar

The addition of scope is described in the current NM Release Notes §4.3.1.

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I2_118817: Problem when updating the EOBT with a second FPL 4.1.3

I2_118817: Problem when updating the EOBT with a second FPL		
Users impacted	U3. Airspace User (Civil) U4. Airspace User (Military) U8. AO or CFSP U10. Non-CDM Airport U13. CDM-Airport U15. Advanced ATC TWR Airport U11. ARO U12. Internal NM U14. Air Navigation Service Provider (ANSP)	
Application impacted	A6. FPL (IFPS)	
Objective	Do not allow a second FPL to be filed to IFPS with a different EOBT to the flight in NM.	
Description	The update of the EOBT with a second FPL is not allowed in IFPS. If it is attempted by sending a FPL to IFPS, an ACK message is returned with a "COMMENT: Existing FPL has been updated". This is completely misleading because the existing FPL has not been updated. After this fix is delivered, when a FPL associates to another FPL changing the EOBT, the FPL will be invalidated with the new EFPM401 error saying "NOT ALLOWED TO USE A FPL TO UPDATE THE EOBT. DLA OR CHG IS REQUIRED"	
Impact for external users	I1. Impact on procedures.I3. Impact on users' systems.	
Impact description	If a flight plan originator attempts to update of the EOBT with a second FPL, the second FPL will be rejected by IFPS.	
Service reference	Flight plan filing and management	
Impact on Services Specifications	S1. I2_118817 will NOT have any impact on the NM Services Specifications.	
Operational deployment plan	D1. I2_118817 will be deployed in Operation along with the release migration.	
Users' testing	I2_118817 is planned to be part of the NM Release OPT (Operational Testing Session)	
Documentation publication	IFPS Users Manual	

CR_047923: Change the FPP parameter MIN_APL_ACH_DELAY 4.1.4

CR_047923: Change the FPP parameter MIN_APL_ACH_DELAY		
	U10. Non-CDM Airport	
Users impacted	U11. ARO	
	U13. CDM-Airport	
	U14. Air Navigation Service Provider (ANSP)	
	U15. Advanced ATC TWR Airport	

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Application impacted	A6. FPL (IFPS)
Objective	Reduce the number of ACH messages sent from IFPS to ATS Units
Description	IFPS currently sends an ACH message when the time of the estimate changes by more than 10 minutes (with no other change to the flight). This causes too many ACH messages to be sent to ATS Units. During ODSG/47, it was agreed to change the IFPS system parameter for sending ACH messages from 10 minutes to 40 minutes. As of NM24.0 software release deployment, the parameter in OPS will be 40 minutes.
Impact for external users	ATS Units will receive less ACH messages.
Impact description	Due to the parameter change from 10 minutes to 40 minutes, ATS Units will receive less ACH messages.
Service reference	Flight plan filing and management
Impact on Services Specifications	S1. The FB will not have any impact on the NM Services Specifications.
Operational deployment plan	D1. FB will be deployed in Operation along with the release migration.
Users' testing	CR_047923 is planned to be part of the NM Release OPT (Operational Testing Session)
Documentation publication	None

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4.1.5 Introduction of IAPs into CACD

Users impacted	U0. Other: Any NM B2B user
Application impacted	A11. NM B2B
Objective	Increase the precision of flight trajectory calculations by introducing IAP (Instrument Approach Procedure) in CACD.
Description	In NM23.0 arrival procedures (STAR) connect en-route routes to the Aerodromes, where the last segment(s) of the STAR is used to represent IAP. With NM23.5 (FB1016 - CR_041962), internal NM model for terminal procedures have been aligned to AIXM. Namely, NM supports an additional terminal procedure type - Instrument Approach Procedure (IAP). IAP starts at the Initial Approach Fix (IAF) and ends at the RWY. Old terminal procedure model are still supported for backwards compatibility reasons. As from NM23.5, IAP will start to be gradually introduced in CACD, as published by the States. Given the necessity to provide backwards compatibility with the old procedures model, the way SID/STARs are represented in CACD and provided to the users of NM Airspace B2B will not change. This process might continue over several releases. Having IAP in NM systems, will increase precision of the flight trajectory calculations and landing time estimation. Consequently, this change will impact NM B2B users and may impact external systems using NM B2B data.
Impact for external users	I2. Impact on Human-Machine interface. I3. Impact on users' systems.
Impact description	NM B2B users downloading Airspace Data will have to take into account the change into terminal procedures model.

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4.1.6 NM24.0 - Browsers compatibility

Browsers recommended in NM24.0:

- FireFox,
- Chrome.

For these recommended browser brands, NM undertakes to investigate and attempt to resolve problems that can be reproduced on the latest stable version of that brand (anything else is on a "best efforts" basis).

Please note that Internet Explorer will no more be supported as from NM24.0.

4.1.7 NM24.0 - Operating Systems compatibility

The recommended operating system is Windows 10. Issues reported on CHMI using Windows 7 will be fixed on a best effort basis.

4.1.8 NM24.0 - NM B2B: Unavailability of version NM22.0

It is reminded to NM B2B users that a NM B2B version remains available during two years after its deployment ("NOP/B2B Reference Manuals - Essentials" documentation, available on the NM B2B OneSky Team website).

As a consequence, NM22.0 will no more be available (OPS and PREOPS) after NM24.0 migration.

4.2 NM24.0 migration

Deployment Plan		2020										
Deployment Flan			М	Α	М	J	J	Α	s	0	Ν	D
Release NM24.0												
Presentation of NM24.0 to externals		11										
OPT			3			23						
Presentation of additions to NM24.0 scope to externals					19							
Start of migration						23						

4.2.1 NM24.0 Network Operations Handbook

Network Operations Handbook will be made available one month before the NM Release migration at:

- The NM Network Operations library: https://www.eurocontrol.int/library?f%5B0%5D=activity%3A774
- The Public and Restricted NOP Portal ("Network Operations Handbook" portlet): https://www.public.nm.eurocontrol.int/PUBPORTAL/gateway/spec/index.html

4.2.2 Presentation of NM24.0 to externals

A video conference presenting the NM24.0 Release took place on the 11th of February 2020.

Slides and recording may be retrieved at:

https://www.eurocontrol.int/event/eurocontrols-nm240-release-webinar

Presentation of the addition to NM24.0 scope - cf. §4.1.2

4.2.3 NM24.0 testing - OPT session

NM24.0 OPT will take place from the 03rd of March 2020 to the 23th of June 2020.

The NM24.0 OPT (Operational Testing session) enables users to assess the potential impact of NM24.0 against their systems or procedures before NM24.0 migration.

Users are able to:

- Download and test the new NM24.0 CHMI,
- Test the new NM24.0 NOP Portal,
- Test some new FBs (operational scenario provided).

No registration is required.

Please send any questions related to the OPT to nm.opt@eurocontrol.int

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4.2.4 NM24.0 migration plan

The migration of NM systems from NM23.5 to NM24.0 with start on the 23/06/2020 and last 7 days.

Software / Service (Times are UTC)	Unavailable from	To	Remark	Business impact during migration	
CHMI software	- For nor http://www.nm. - For NN	NM-managed eurocontrol.int 1-managed PC	and documentation availability: aged PC: <u>bl.int/chmi_appsoft/NM_24.0/chmi/chmiaoinst16.0.4.pdf</u> d PC: Software will be pushed on the PCs until the 19/06/2020 but not		
ATFCM CHMI activation except CIAM	23/06/2020 21:00	24/06/2020 00:00	Expected downtime 1h30 + 1h30 provision in case of rollback	No access to NM services via CHMI	
CIAM AMC activation	30/06/2020 16:30	30/06/2020 20:00	-	No access to NM services for CHMI AMC positions (using CIAM)	
NOP Portal (CPA) unavailability	23/06/2020 21:00	24/06/2020 00:00	Expected downtime 1h30 + 1h30 provision in case of rollback	No access to NOP Portal (Public and Protected)	
IFPUV unavailability	29/06/2020 22:00	30/06/2020 00:00	Expected downtime 1H00 + 1H00 provision in case of rollback	No Flight Plan validation service via all channels including CHMI, NOP Portal and B2B Web Services	
SAFA / ACC3 Services (FAAS system) unavailability	29/06/2020 22:00	30/06/2020 00:00	Expected downtime 1H00 + 1H00 provision in case of rollback	No SAFA service during this time period	
CSST service unavailability	24/06/2020 07:00	24/06/2020 09:00	-	No CSST service during this time period	
System (Times are UTC)	Unavailable from	То	Remark	Business impact	
ATFCM services					
ETFMS, PREDICT, CUA	23/06/2020 21:00	24/06/2020 00:00	Expected downtime 1h30 + 1h30 provision in case of rollback	No Flow Management Services available via all channels including CHMI, NOP Portal and B2B Web Services	
DWH (Datawarehouse)	24/06/2020 00:00	24/06/2020 06:00	-	No Query/Replay in CHMI, some NMIR reports will be unavailable.	
Flight Plan services					
IFPS	29/06/2020 22:00	30/06/2020 00:00	Expected downtime 1H00 + 1H00 provision in case of rollback Expected downtime 1H00 + No Flight Plan filing services channels including CHMI, Portal and B2B Web Services		
Airspace and Capac	ity Data Service	es			
ENV/CACD	30/06/2020 16:30	30/06/2020 20:00	-	No access to CIAM	
	No	EUUP nor on-l	line updates will be done in CAC	D during CACD migration	

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NM B2B services (Times are UTC)

Important note: As the NM B2B services use the NM Back-End systems, NM B2B services will be disrupted during the migration of these systems. In particular, Flight Services will not be available during IFPUV migration (c.f. above).

NM24.0 documentation, wsdl and xsd files		NM24.0 draft documentation (including wsdl and xsd files) is available on the NM B2B OneSky Team website https://ost.eurocontrol.int/sites/B2BWS . Final version will be available on the 23/06/2020.					
Platform		Before NM24.0 PREOPS migration - 18/05/2020 06:00	After NM24.0 PREOPS migration - 19/05/2020 14:00	Migration to NM24.0 OPS From 23/06/2020 21:00 To 24/06/2020 00:00 Expected downtime 1h30 + 1h30 provision in case of rollback	After the 24/06/2020 00:00		
	NM22.0	Available	Not available	Not available	Not available		
Pre-ops	NM22.5 and NM23.x	Available	Available	Not available	Available		
	NM24.0	Not available	Available	Not available	Available		
	NM22.0	Available	Available	Not available	Not available		
Ops	NM22.5 and NM23.x	Available	Available	Not available	Available		
11	NM24.0	Not available	Not available	Not available	Available		

[&]quot;Expected downtime x hours + y hours provision in case of rollback" means that the system or service will be unavailable minimum x hours and maximum up to (x + y) hours if a rollback to the previous version is required.

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4.3 Release NM24.0 content

4.3.1 Additions to NM24.0 scope - 07/04/2020

CR_048506: ATF	M regulations by Airport terminal
	U1. Flow Manager (FMP) U3. Airspace User (Civil) - incl. AO U8. CFSP
Users impacted	U10. Non-CDM Airport U13. CDM-Airport U15. Advanced ATC TWR Airport
	U12. Internal NM U0. Other: Any user that fills Flight Plans via AFTN or NM B2B
Application impacted	A5. Flow management systems (Predict, ETFMS) A6. FPL (IFPS) A11. NM B2B
	The CR_048506 is targeting to provide the ability for NMOC to apply ATFM regulations by airport terminal.
Objective	It will provide the possibility to apply ATFM regulations using traffic volumes based on flights departing or arriving from/to different airport terminals.
	During the post-COVID transition phase, such possibility could be quite helpful to sort out airport issues related to COVID-19 constraints, or other situations (e.g. when a terminal is not available).
	A new type of flow will be created. It will be used to build specific airport traffic volumes (dep, arr, global), based on the "terminal" information retrieved from the FPL field 18, filed by AUs (Airspace Users), or from A-CDM (DPI and API) messages.
	The information related to the airport terminals will be provided through: • the Field 18 (Other information) of the Flight Plan: this field must contain the
	keywords:
	+TERMINALDEP terminalname +TERMINALARR terminalname
	the A-CDM DPI or API (if applicable) messages:
	-TERMINALDEP terminalname -TERMINALARR terminalname
Description	Examples of exact convention are presented below: EGCC has T1, T2 and T3:
	For departures:
	+TERMINALDEP(space)T1
	+TERMINALDEP(space)T2
	+TERMINALDEP(space)T3
	For arrivals:
	+TERMINALARR (space) T1 +TERMINALARR (space) T2
	+TERMINALARR (space) T3
	EGKK has Terminal North and South:
	For departures:

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	+TERMINALDEP(space)N
	+TERMINALDEP(space)S
	For arrivals:
	+TERMINALARR(space)N
	+TERMINALARR(space)S
	Please note that:
	The terminal information received from CDM messages have precedence over the terminal information received from Flight Plans messages.
	When a flight is diverted, the arrival terminal in the CTFM will be cleared.
Impact for	I1. Impact on procedures.
Impact for	I3. Impact on users' systems.
external users	I4. Other impact: training
	Airspace Users may have to update their training, procedures and flight planning systems if they want to include information about the airport terminals used.
Impact description	FMPs and airports may have to update their training, procedures and consider the request of new traffic volumes and its required flows if they want to be able to monitor and create measures on airport terminals.
	The change will be subject to the application of an operational procedure that describes the actions to be taken by Airspace Users, Flow Management Units and airports for the application of the aforementioned change. The procedure includes actions on flight planning and flow management components.
	Flight plan filing and management
Service	Network Manager Business-to-business (B2B) web services
reference	Operations planning
Impact on Services Specifications	S1. The FB will NOT have any impact on the NM Services Specifications.
Operational deployment plan	D1. CR will be deployed in Operation along with the release migration.
Users' testing	O1: CR_048506 is planned to be part of the NM Release OPT (Operational Testing Session)
	ATFCM Users Manual
Documentation	ATFCM Operations Manual
publication	IFPS Users Manual
	AD Operations Manual
	ı '

FB1067: iDAP / Future Helpdesk		
Users impacted	U01. Flow Manager (FMP) U07. Post-ops analyst U08. AO or CFSP U10. Non-CDM Airport U12. Internal NM U13. CDM-Airport U15. Advanced ATC TWR Airport	
Application impacted	A05. Flow management systems (Predict, ETFMS) A10. NOP Portal	

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	A11. NM B2B
Objective	Following the successful implementation of the eHelpDesk service with previous NM Releases, NMOC is continuing to improve the eHelpDesk service. Main objective is to digitalize the incoming requests to the NMOC what will lead to better service and more time for NMOC to focus on network critical issues. With last changes, the number of phone calls to the NMOC is significantly decreased, and the outcome is more availability of the phone line for critical requests. With the NM24.0 the eHelpDesk service will be fully available via NM B2B. All B2B and B2C requests will arrive into the same queue and will be treated equally. Having centralized reception of all requests in the ETFMS will optimize the workflows within the NMOC resulting with faster response times.
	eHelpDesk requests states:
Description	This change will introduce the current B2B requests states to the NOP. B2B is using MCDM (Measure Collaborative Decision Making) Request States that are more complete and provide more information about the request status. eHelpDesk via B2B:
	All eHelpDesk functionalities will be available via both NM B2B and B2C as of NM24.0.
Impact for	I1. Impact on procedures.
external users	I2. Impact on Human-Machine interface.
Impact description	 New B2B services available (Full eHelpDesk service available via the NM B2B) MCDM Request states will be implemented on the NOP: <u>Draft:</u> The initiator is drafting the proposal. Request is not yet visible by the NMOC. <u>Proposed:</u> The initiator proposes the measure/flight request for its assessment and approval by the NMOC. Request is now visible in the NMOC queue. <u>Coordinated:</u> Measure is being reviewed by NMOC staff (equivalent to the LOCKED state today). Initiator can no longer modify/cancel the request. <u>For Implementation:</u> Proposal has been accepted, but requires action. <u>Implemented:</u> The proposal has been reviewed and accepted. It is already applied in the system. <u>Abandoned:</u> Proposal is revoked by the originator. <u>Interrupted:</u> The proposal is rejected (automatically or manually by the NMOC)
Service reference	Network Operations Portal
Impact on Services Specifications	S1. The FB will not have any impact on the NM Services Specifications.
Operational deployment plan	D1. FB will be deployed in Operation along with the release migration.
Users' testing	O1. FB1067 is planned to be part of the NM Release OPT (Operational Testing Session)
Documentation publication	ATFCM Users Manual ATFCM Operations Manual NOP Portal Users Guide
CR_047810: AOV	VIR Apply available via B2B
Users impacted	U3. Airspace User (Civil) - incl. AO U8. CFSP

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	LIME NIM DOD
	U15. NM B2B users
Application	A6. FPL (IFPS)
impacted	A11. NM B2B
Objective	This change will allow the AO/CFSP using the flight planning on NM B2B services to have the full AOWIR package (including Apply/Book) under the same service, without having to access the NOP Portal at all.
Description	The Apply AOWIR can be done directly through the NM B2B web services under the applyRerouting Write Service.
	This NM B2B web service will provide the same results as CHMI or NOP Portal.
Impact for external users	I3. Impact on users' systems.
Impact	The applyRerouting Write Service will be available for the AOWIR B2B users.
Impact description	Like for any NM B2B Write service usage, this service will be subject to an operational validation prior of operational usage by the user.
Service reference	Network Manager Business-to-business (B2B) web services
Impact on Services	S1. The FB will NOT have any impact on the NM Services Specifications.
Specifications	
Operational deployment plan	D1. FB will be deployed in Operation along with the release migration.
Users' testing	O1: CR_047810 is planned to be part of the NM Release OPT (Operational Testing Session)
Documentation publication	NM B2B manuals

CR 047936:	Adaptation	of NOP Portal	tor NES MAP	- phase-out of Flash

CR_04/936: Ada	CR_047936: Adaptation of NOP Portal for NES MAP - phase-out of Flash			
	U1. Flow Manager (FMP)			
	U2. Airspace Manager (AMC)			
	U3. Airspace User (Civil) - incl. AO			
	U4. Airspace User (Military)			
	U5. ENV data provider			
Users impacted	U6. Management (eg crisis management, performance management)			
	U7. Post-ops analyst			
	U10. Non-CDM Airport			
	U13. CDM-Airport			
	U15. Advanced ATC TWR Airport			
	U11. ARO			
Application impacted	A10. NOP Portal (Protected only)			
Objective	The NM23.5 Interactive map is based on Flash technology. As the large browser providers will no longer support Flash from end of year 2020, this change intends to maintain the main NOP Portal Interactive map features through a map replacement coded differently.			
Description	The current map will be replaced by the interactive NES map developed in the context of NES applications.			

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	The access to the new map will be maintain through different views of the NOP Portal (in all phases Strategic, Pre-Tactical, Tactical, Post-Operations): Initial Network Plan, Current Network Situation, Flight List, Flight Management, and IFPUV proposal views and simulation workspace.
Impact for external users	I2. Impact on Human-Machine interface.
Impact description	The external users of the protected NOP Portal Interactive map will see a map with a different look & feel and same functionalities as the current map. The features will be described in the HELP area of the NOP Portal and will be available through the Release OPT for users' familiarisation.
Service reference	The product affected by this change is the Network Operations Portal Services performed through this product may relate to: Network operations monitoring and reporting Flight plan filing and management Collaboration Human Machine Interface Strategic planning Operations planning
Impact on Services Specifications	S1. The FB will not have any impact on the NM Services Specifications.
Operational deployment plan	D1. FB will be deployed in Operation along with the release migration.
Users' testing	O1: CR_047936 is planned to be part of the NM Release OPT (Operational Testing Session)
Documentation publication	NOP Portal Users Guide

NCO-14974: Improve presentation of updates in both exported Excel files and RAD application	
Users impacted	U3. Airspace User (Civil) - incl. AO
	U12. Internal NM
	U0. Other: NM RAD Team
Application impacted	A16. n-CONECT: RAD@NES
Objective	The objective of the change is to improve the readability of the changes in directives of RAD Excel output files and thus to change the User Interface in the application.
Description	NCO-14974 will improve presentation of updates in Excel file and in the RAD Application views.
	NM23.5 presentation:
	NOT AVAILABLE FOR TRAFFIC
	except:
	1. via TADUV Z21 RIVSA
	2. via RBENDOBEX Q230 TADUV
	3. ARR EDDP

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	NOT AVAILABLE FOR TRAFFIC
	except via MAHERSI Y100 ATMAX
	Presentation after NM24.0 migration:
	Not available for traffic
	Except
	1. via TADUV Z21 RIVSA
	2. via RENDO BEBEX Q230 TADUV
	3. ARR EDDP
	Not available for traffic
	except via MAH MERSI Y100 ATMAX
Impact for external users	I2. Impact on Human-Machine interface.
Impact description	The RAD Excel output file and the User Interface is changed accordingly
Service reference	Airspace data
Impact on Services Specifications	S1. The FB will not have any impact on the NM Services Specifications.
Operational deployment plan	D1. FB will be deployed in Operation along with the release migration.
Users' testing	O1: NCO-14974 is planned to be part of the NM Release OPT (Operational Testing Session)
Documentation publication	n-CONECT manuals

CR_047338: Auto-refresh (poll) only the visible tab in CHMI	
	U1. Flow Manager (FMP)
	U2. Airspace Manager (AMC)
	U3. Airspace User (Civil) - incl. AO
	U4. Airspace User (Military)
	U7. Post-ops analyst
Users impacted	U8. CFSP
	U10. Non-CDM Airport
	U13. CDM-Airport
	U15. Advanced ATC TWR Airport
	U14. Air Navigation Service Provider (ANSP)
	U0. Other: Any CHMI / CIFLO / CIAO / CITO / CIAM user
A P C	A1. CHMI
Application impacted	A2. CIFLO, CIAO, CITO
	A3. CIAM
Objective	The objective of the CR is to decrease the number of polling (automatic refresh) done by the CHMI application to NM systems in order to decrease the workload on NM systems.

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Description	Several tabs (workspaces) in the CHMI can be opened with auto-refresh (polling) set. Some users have a large number of tabs (e.g. 15) created, each tab having several windows opened (e.g. 10 Traffic Volumes counts). Polling the non-visible tabs is not useful for the user and could be in a large majority of cases avoided. As from NM24.0, by default, the non-visible tabs of the CHMI / CIFLO / CIAO / CITO and CIAM applications will not be automatically refreshed in the background. The tab will be automatically refreshed when the user will select it and make it visible. A new button "global polling" (and corresponding menu item) will be added to activate/deactivate the polling of all windows in the current tab.
Impact for external users	I2. Impact on Human-Machine interface.
Impact description	The CR should have no tangible impact on a large majority of users as the tab will be refreshed automatically when selected. Users who nevertheless need windows in all tabs to be polled (i.e. NM23.5 behavior) can force this by not checking the user preference "ATFCM → General → Date and times → Only poll active tab"
Service reference	Collaboration Human Machine Interface
Impact on Services Specifications	S1. The FB will not have any impact on the NM Services Specifications.
Operational deployment plan	D1. FB will be deployed in Operation along with the release migration.
Users' testing	O1: CR_047338 is part of the NM Release OPT (Operational Testing Session)
Documentation publication	CHMI ATFCM Reference Guide

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Airport-Network Integration 4.3.2

Users impacted	U01. Flow Manager (FMP) U08. AO or CFSP U13. CDM-Airport
Application impacted	A05. Flow management systems (Predict, ETFMS)
Objective	Improvements to the Departure Planning Information (DPI) messages are identified based on experience acquired with A-CDM processes. As a result, the processing is continuously refined in coordination with the stakeholders. In the transition towards AOP-NOP data exchange, a change concerning the acceptance of the C-DPI message was proposed.
Description	CR_045109: Process C-DPI before EOBT - 3h A Cancel-DPI provided before the A-CDM horizon timeframe (EOBT – 3h) will be accepted and processed. The C-DPI will be accepted and processed even if it is the first DP message provided by the A-CDM airport. No change will be made concerning the way the C-DPI is processed. On reception of the C-DPI, the flight is suspended and it is no longe reflected in the traffic demand. The airport may have advance information, from the aircraft operators, that certain flights will not operate. This CR is providing a means to airports to pass this information to the Network Manager from as early as EOBT - 48h or, if the flight plan is filed later, as soon as the flight plan is filed. This will enable NM to update the traffic demand picture before the aircraft operator cancels the flight plan through a CNL message.
Impact for external users	I3. Impact on users' systems.
	CR_045109: Process C-DPI before EOBT - 3h Providing the C-DPI message earlier than EOBT - 3h is a requirement that would be enforced only for those airports wishing to advance their DPI messaging by setting up the AOP-NOP exchange connection with the network. Please note that the use of NM B2E Web Services is the recommended channel for the AOP-NOP data exchange.
Impact description	In this case, airports should include the reason "FLIGHT_CANCEL_IN_AODB" in the CDPI message provided via B2B.
	Existing A-CDM airports will also have the possibility to provide early information on flight that would not operate. However, this requirement will not be mandatory unless the A CDM airport is engaged in an ongoing AOP-NOP project with the NM.
	Existing A-CDM airports providing DPI messages via NM B2B Web Services will not be impacted by the change.
Service reference	Reception and distribution of real-time airport, air traffic control and surveillance data
Impact on Services Specifications	S1. The FB will not have any impact on the NM Services Specifications.
Operational deployment plan	D1. FB will be deployed in Operation along with the release migration.
Users' testing	O2: FB1027 will not be part of the NM Release OPT (Operational Testing Session)
Documentation publication	DPI Implementation Guide

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	U01. Flow Manager (FMP)
	U07. Post-ops analyst
Users impacted	U12. Internal NM
occio impactoa	U13. CDM-Airport
	U15. Advanced ATC TWR Airport
Application impacted	A05. Flow management systems (Predict, ETFMS)
Objective	FB1066 delivers improvements to the Tower Update A-DPI message processing that enable its roll out to any A-CDM or Advanced ATC TWR airport interested to provide this message to NM, and therefore transitioning from the trial mode to stable operational use Furthermore, it extends its possible use to enabling the TWR to request de-suspension for a flight that was suspended by Flight Activation Monitoring (FAM).
	CR_047510: Over-delivery check for TWRUPDATE A-DPI
	When TWR sends a TWRUPDATE A-DPI to request a CTOT extension for the flight, NN system checks several conditions before deciding to grant a 10 minutes extension or not The purpose of this CR is to complement the existing conditions with an over-deliver check, by only granting the 10 minutes CTOT extension when there is a free slot within the next 20 minutes from the previous CTOT value. When no free slot is found within the next 20 minutes, the next available CTOT will be issued.
	Consequently, the number of times when the 10 minutes CTOT extension creates an over delivery will be reduced. In practice, it is expected that an extension is granted in fewer cases than today, and in return, the TWR would receive the next available CTOT. When the latter occurs, the reason why the CTOT extension could not be granted will not be communicated to the TWR.
	Another change introduced by this CR is that the next available CTOT will be sent to TWI instead of a rejection message in the following cases:
Description	 A CTOT has previously been granted to the flight, either automatically or manually; the error message "CTOT ALREADY EXTENDED" will be suppressed.
	 The limit of 3 granted CTOT extensions in the past rolling hour has been reached; the error message "HOURLY LIMIT FOR AUTOMATIC CTOT EXTENSIONS EXCEEDED" will be suppressed.
	In all cases when the next available CTOT was sent in response to TWRUPDATE A-DPI the flight will receive the REA status. Moreover, TWR would retain the possibility to reques a CTOT improvement to NMOC.
	CR_047513: De-suspension rule via TWRUPDATE A-DPI
	TWR will have the possibility to send a TWRUPDATE A-DPI to request de-suspension of a flight that was suspended by FAM. Note that a classic A-DPI is rejected in this case.
	The CDM status "Actual Off-Block" will be kept when the flight is suspended by the airpo (via C-DPI) or by FAM. When the flight is in CDM status "Actual Off-Block", only the TTO value from the A-DPI is reset on reception of a C-DPI.
	A TWRUPDATE A-DPI message will be accepted only when the CDM status is "Actual Off-Block". If not, the message is rejected with "NOT REPORTED AS OFF BLOCK".
Impact for	I1. Impact on procedures.
Impact for external users	I2. Impact on Human-Machine interface. I3. Impact on users' systems.
	Users who have updated their system to display the error messages on their HMI and / o
Impact description	have defined procedures based on these error messages may need to update the system / procedures due to some of those error messages no longer being output.

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	Those five airports that are currently providing the TWRUPDATE A-DPI as part of a trial may notice a drop in the number of granted CTOT extensions. This impact will apply by default to new airports that will only start using the functionality after NM24.0. Post-implementation statistics will be performed to quantify the ratio of CTOT extensions vs. the number of times the next available CTOT is sent in response. These will be shared with the DPI Working Group. TWR should update their procedures if they wish to provide the TWRUPDATE A-DPI message to request de-suspension of a flight suspended by FAM. Airports wishing to provide the TWRUPDATE A-DPI message will need to contact the NM A-CDM team in order to plan an operational test intended to check whether the interaction between their system and the NM system behaves as expected. Following positive outcome of these tests, both parties should agree on a date to activate the TWRUPDATE A-DPI provision on a permanent basis.
Service	
reference	Reception and distribution of real-time airport, air traffic control and surveillance data Airport Collaborative Decision Making
Impact on Services Specifications	S1. The FB will not have any impact on the NM Services Specifications.
Operational deployment plan	D1. FB will be deployed in Operation along with the release migration.
Users' testing	O2: FB1066 will not be part of the NM Release OPT (Operational Testing Session)
Documentation publication	ATFCM Operations Manual DPI Implementation Guide

4.3.3 **Airspace Management and Advanced FUA**

FB1064: ASM - Advanced FUA process improvement	
Users impacted	U02. Airspace Manager (AMC)
	U08. AO or CFSP
	A01. CHMI
Application	A03. CIAM
impacted	A04. CACD
	A11. NM B2B
Objective	Following the request from several Member States for more flexibility and new capabilities to better apply the AFUA process, the objective of this FB, as part of the ASM-AFUA programme, is to increase system flexibility for further optimisation of airspace usage.
	CR_046917: NPZ processed via AUP/UUP
Description	This CR will allow States or AMCs to process NPZ via AUP/UUP. No Planning Zones (NPZs) as a new airspace subtype were implemented (into CACD) with NM23.5. CR_046917 will enable NPZ management via AUP/UUP mechanism.
	In other words, after the implementation of this change request, NM system will allow Airspace Management Cells (AMCs) to process and notify daily activation of selected NPZs via AUP/UUP.
Impact for external users	I1. Impact on procedures.
	I2. Impact on Human-Machine interface.
	I3. Impact on users' systems.

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Impact description	CR_046917: NPZ processed via AUP/UUP
	In CIAM, AMCs will have a new airspace subtype to provide NPZ information to NM via AUP/UUP.
	The NPZ IDs will be displayed in the NOP Portal in RSA placeholder with associated restrictions.
	Users will have to adapt their ASM tools as well as local procedures to process the NPZ IDs with associated restrictions (at least one active by default).
	For NM B2B users, eAMI content will change as it is going to contain NPZ information.
Service reference	Airspace data Airspace management Collaboration Human Machine Interface Network Operations Portal Network Manager Business-to-business (B2B) web services
Impact on Services Specifications	S1. The FB will not have any impact on the NM Services Specifications.
Operational deployment plan	D1. FB will be deployed in Operation along with the release migration.
Users' testing	O1: FB1064 is planned to be part of the NM Release OPT (Operational Testing Session)
Documentation publication	FUA - AMC/CADF Operations Manual CHMI ASM Function Reference Guide NM B2B manuals NOP Portal Users Guide

4.3.4 **CTM (Cooperative Traffic Management)**

FB987: STAM further developments	
Users impacted	U0. Other: Specific users of the feature
Application impacted	A02. CIAO A05. Flow management systems (Predict, ETFMS) A10. NOP Portal A11. NM B2B A14. n-CONECT
Objective	The purpose of this Functional Block is to ease the STAM process.
Description	For any rerouting proposal sent, NM will provide the measure ID via the NOP Portal flight list details and NM B2B. AUs will be able to retrieve the rerouting constraints and the reason for the type of rerouting proposal in the comment field of the RRP message via AFTN (for instance and in case of STAM measures, through the statement, "Purpose is STAM"). Note that in case of STAM measures, this feature will be initially deployed within the context of STAM RRP process with the NCAP tool (evolution of DSNA's CAP tool), only targeting participant aircraft operators.
Impact for external users	I0. No impact
Impact description	FB987 will impact only AOs participating to the initial operations of the STAM RRP process (with the NCAP tool). Other users will not be impacted. It will thus not be presented to the NM24.0 Presentation to externals (cf §4.2.2)

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Service reference	Network operations monitoring and reporting Network Operations Portal Network Manager Business-to-business (B2B) web services
Impact on Services Specifications	S1. The FB will not have any impact on the NM Services Specifications.
Operational deployment plan	D1. FB will be deployed in Operation along with the release migration.
Users' testing	O1: FB987 is planned to be part of the NM Release OPT (Operational Testing Session)
Documentation publication	ATFCM Users Manual NM B2B manuals NOP Portal Users Guide Re-Routing Opportunities - Information for Airspace Users (CHMI Version) Re-Routing Opportunities - Information for Airspace Users (NOP Version)

FB1070: Target Time improvements	
	U01. Flow Manager (FMP)
	U03. Airspace User (Civil)
	U05. ENV data provider
	U07. Post-ops analyst
Users impacted	U10. Non-CDM Airport
	U13. CDM-Airport
	U14. Air Navigation Service Provider (ANSP)
	U15. Advanced ATC TWR Airport
	U0. Other: NM EFD users
	A05. Flow management systems (Predict, ETFMS)
Application	A07. Datawarehouse (NMIR)
impacted	A10. NOP Portal
	A11. NM B2B
Objective	The objective of the FB is to provide to the user a way to inform NM when a flight's STAR
	is of type DCT.
	CR_047021: Implement STAR DCT in General Arrival Planning Information of the NM B2B service requests.
	NM will improve the Arrival Planning Information via B2B: it will be possible for users to inform NM that the terminal procedure of arrival is a DCT from the route to the ADES, via a specified point.
	This specified point can be:
	an intermediate point of the current STAR,
	or an intermediate point of the route,
Description	or even an ad-hoc point, not part of the STAR definition or part of the route.
	The arrivalProcedure (optional attribute) is being moved into the
	arrivalPlanningInformationRequest which is common to all three arrival planning
	information request types.
	abstract class ArrivalPlanningInformationRequest {
	flightStatusInbound
	arrivalProcedure
	}

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	NM is removing arrivalProcedure attribute from GeneralAPIRequest.
	class GeneralAPIRequest extends ArrivalPlanningInformationReques
	registrationMark
	aircraftType
	aircraftIATAId
	arrivalTaxiTime
	arrivalProcedure
	arrivalRunway
	arrivalApronStand
	}
mpact for external users	I3. Impact on users' systems.
	Under special arrangements, those users participating in arrival planning information exchange with NM may now include STAR DCT in their general Arrival Planning Information exchanged with NM.
	Special arrangements include trials or preparation activities leading to the futur operational deployment of arrival planning information exchange with NM.
	STAR DCT into CACD datasets will be provided by ENV data providers.
	By removing the arrivalProcedure from the generalAPIRequest means that NI
	contravenes the normal NM Web service principle of NM24.0 backward compatibility wit NM23.5, NM23.0 and NM22.5.
Impact description	The impact should be low because the <code>generalAPIRequest</code> is not currently used after the PJ24 and PJ25 trials. NM is in direct contact with the future users of this service and has written to them directly to inform them that they may wish to impact assess this change and to act accordingly.
	The ETFMS Flight Data (EFD) messages could contain new Event Types: "PDI", "GAI "TAI" and "OAI". The meaning of these new events is:
	PDI (Predicted Departure Planning Information),
	 GAI (General Arrival Planning Information), triggered by an NM B2B service request that updates NM with flight arrival information, such as STAR,
	 TAI (Target Take-Off Arrival Planning Information) service request that have resulte in a flight's CTOT calculation,
	 OAI (Target Time-Over Arrival Planning Information) service request that updates the planned times up to arrival time for the flight.
	As well, a new CDMSTATUS could be present in the EFD messages after the processin of a P-DPI message by ETFMS.
	Reception and distribution of real-time airport, air traffic control and surveillance data
Service	Network Manager Business-to-business (B2B) web services
eference	Airport Capacity and Performance Airport Collaborative Decision Making
	Airport information management
mpact on Services Specifications	S1. The FB will not have any impact on the NM Services Specifications.
•	
Operational deployment plan	D1. FB will be deployed in Operation along with the release migration.

Network Manager —

Documentation publication	ATFCM Operations Manual (ATFCM Operations Manual will be updated to reflect future progress of AOP-NOP and extended AMAN projects) API Implementation Roadmap API Implementation Guide Flight Progress Messages document
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FB1072: Predicta	FB1072: Predictability improvements		
Users impacted	U1. Flow Manager (FMP) U3. Airspace User (Civil) U8. AO or CFSP U14. Air Navigation Service Provider (ANSP)		
Application impacted	A01. CHMI A05. Flow management systems (Predict, ETFMS) A10. NOP Portal A11. NM B2B		
Objective	The objective of this FB is to facilitate improvements of existing Yo-Yo tool (identification of Yo-Yos in filed flight plans).		
Description	NM is committed to support the reduction of Yo-Yo flight plans. A Yo-Yo flight can be defined as following a vertical profile that is planned to (after reaching the initial top of the climb and before reaching the final top of descent during the cruising phase) descent certain amount of FLs and then climbs a certain amount of FLs. As from NM23.0, NM system is used for live Yo-Yo detection based on predefined detection parameters. Flight plans and change messages submitted are checked on Yo-Yo presence. When detected, the Yo-Yo information will be used by AOs and FMP in the CDM process in order to agree on actions: • to refile flight plan without Yo-Yo profile • or to adhere to the flight plan with Yo-Yo profile FB1072 will enable more precise filtering by NM systems of operationally critical Yo-Yo profile as it will include the length parameter (of the distance between Yo-Yo Start and Yo-Yo End) in identification criteria. Yo-Yo information will be distributed through B2B (via Query/Reply and Publish/Subscribe).		
Impact for external users	I1. Impact on procedures. I2. Impact on Human-Machine interface		
Impact description	This FB will impact only users deciding to make use of the Yo-Yo information made available via NM B2B.		
Service reference	Collaboration Human Machine Interface Network Operations Portal		
Impact on Services Specifications	S1. The FB will not have any impact on the NM Services Specifications.		
Operational deployment plan	D1. FB will be deployed in Operation along with the release migration.		
Users' testing	O1: FB1072 is planned to be part of the NM Release OPT (Operational Testing Session)		

Network Manager -

NETWORK MANAGER RELEASE NOTES

Documentation publication

CHMI ATFCM Reference Guide

NM B2B manuals

NOP Portal Users Guide

4.3.5 EAIMS (European ATM Information Management Service)

FB1086: CACD validation of RAD		
Users impacted	U12. Internal NM U0. Other: National RAD Coordinator	
Application impacted	A16. n-CONECT: RAD@NES	
Objective	FB1086 will validate the RAD restrictions against CACD data modifications (Present and future) and report affected Restrictions.	
Description	As from NM24.0, the RAD data will be validated against present and the next future AIRAC. Any RAD restriction becoming invalid because of CACD data changes will be reported. RAD restrictions will be reported when incoherencies are detected and when potential implicit incoherencies are identified. When subsequently the RAD restrictions are modified, an incremental file will be generated.	
Impact for external users	I1. Impact on procedures.	
Impact description	RAD restrictions becoming incoherent or potentially invalid will be presented to the NRC who will have to define appropriate procedures to handle them.	
Service reference	Airspace data	
Impact on Services Specifications	S1. The FB will not have any impact on the NM Services Specifications.	
Operational deployment plan	D1. FB will be deployed in Operation along with the release migration.	
Users' testing	O1: FB1086 is planned to be part of the NM Release OPT (Operational Testing Session involving also the NRCs)	
Documentation	Provision of CACD Data	
publication	AD Operations Manual	

4.3.6 FPFDE (Flight Plan and Flight Data Evolution)

FB1074: FF-ICE filing Function - file eFPL		
Users impacted	U03. Airspace User (Civil) U08. AO or CFSP U12. Internal NM	
Application impacted	A06. FPL (IFPS) A11. NM B2B	

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NETWORK MANAGER RELEASE NOTES

Objective	The FB1074 implements features that couldn't be addressed with the initial FF-ICE Filing Service deployment in NM23.0. It is another incremental step towards full alignment with the ICAO FF-ICE Filing service specification. The FF-ICE will eventually replace the current ICAO procedures and processes for the filing of a flight plan, and provide the means for the exchange of flight plan data, including trajectory and aircraft performance.
Description	 FB1074 will address the following topics: Support of Planned Delay (equivalent of STAY / DLE) and OAT information in the 'structured' route elements; Flight plan originator information (equivalent of ORGN in Item 18 of the FPL); Implement departure and destination airport slot identification; Support of IATA flight number.
Impact for external users	I1. Impact on procedures. I3. Impact on users' systems.
Impact description	External users submitting eFPLs (FF-ICE flight plans in FIXM4.1 data format) through the NM B2B Flight services will have to adapt their systems to be able to provide any of the elements listed above under Description.
Service reference	Flight plan filing and management Network Manager Business-to-business (B2B) web services
Impact on Services Specifications	S1. The FB will not have any impact on the NM Services Specifications.
Operational deployment plan	D1. FB1074 will be deployed in Operation along with the release migration.
Users' testing	O1: FB1074 will be part of the NM Release OPT (Operational Testing Session) on PREOPS
Documentation publication	IFPS Users Manual NM B2B manuals FF-ICE/R1 Extended Release Notes - Release 24.0

4.3.7 Free Route Airspace (FRA)

FB1084: FRA improvements	
	U1. Flow Manager (FMP)
Users impacted	U7. Post-ops analyst
	U12. Internal NM
A Ii	A4. CACD
Application impacted	A5. Flow management systems (Predict, ETFMS)
impacted	A7. Datawarehouse (NMIR)
Objective	Update Traffic Volumes dynamically.
Description	Traffic patterns can evolve during the operational day, in particular due to operational measures that have already been put in place to regulate them.
	Traffic volumes may have been incorrectly defined in the AIRAC and require updates. With NM23.5, Traffic volumes can only be renamed and recreated but not altered by live updates to adapt to new traffic flows.
	FB1084 will allow traffic volumes to be dynamically changed in ENV; the ETFMS regulations based on these traffic volumes will be re-evaluated.

Network Manager —

NETWORK MANAGER RELEASE NOTES

Impact for external users	I1. Impact on procedures.
	When live updates to traffic volumes are enabled, ETFMS will automatically re-evaluate any regulations using the updated traffic volumes. Flights will be de-regulated and reregulated without intervention of the NMOC Flow Controllers and slots re-issued.
Impact description	Changes to the traffic volume input by CACD in the ENV system can potentially change the slot allocation of many flights in ETFMS without the interaction of the NMOC Flow Controllers so close cooperation between the two teams and possibly with the FMP involved will be essential.
	Attention must be paid to the training of the Operational staff to ensure that the update procedure and the impact on the operational traffic is understood.
Service reference	Network operations monitoring and reporting Airspace data Centralised secondary surveillance radar code assignment and management system Network Operations Portal Network Manager Business-to-business (B2B) web services Operations planning
Impact on Services Specifications	S1. The FB will not have any impact on the NM Services Specifications.
Operational deployment plan	D1. FB will be deployed in Operation along with the release migration.
Users' testing	O1: FB1084 is planned to be part of the NM Release OPT (Operational Testing Session)
Documentation publication	ATFCM Operations Manual Provision of CACD Data AD Operations Manual

4.3.8 n-CONECT

FB1095: RAD Full Completion	
Users impacted	U5. ENV data provider
	U12. Internal NM
	U0. Other: National RAD Coordinator
Application impacted	A16. n-CONECT: RAD@NES
Objective	FB1095 will provide an application which allows the National RAD coordinators (NRC) to define and maintain RAD restrictions and to interface with neighbouring NRCs and the NM RAD team.
	It will also provide allow the NM RAD team to consolidate the proposed RAD restrictions amendments and publish the RAD document.
Description	FB1095 will replace the legacy RAD Excel spreadsheet by a tailored application that allow the NRC to store, maintain and edit its RAD restrictions. This will facilitate the coordination with neighboring states.
	It will automate the interfacing with the NM RAD team and allow the RAD team to consolidate the proposed RAD restrictions and publish the RAD document.
	At a later stage, RAD@NES will also allow to feed the CACD system in a computer assisted way with Restrictions.

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NETWORK MANAGER RELEASE NOTES

-	
Impact for	I1. Impact on procedures.
external users	I2. Impact on Human-Machine interface.
Impact description	NRC will have to update their procedures and use the new tool to provide RAD information to NM. Output (RAD Excel file) structure remains unchanged.
Service	Airspace data
reference	Collaboration Human Machine Interface
Impact on Services Specifications	S1. The FB will NOT have any impact on the NM Services Specifications.
Operational deployment plan	D1. FB will be deployed in Operation along with the release migration.
Users' testing	O1: FB1095 is planned to be part of the NM Release OPT (Operational Testing Session)
	ATFCM Users Manual
Documentation	Provision of CACD Data
publication	AD Operations Manual
	n-CONECT manuals

4.3.9 **Operations Improvements**

FB1042: ATFM messaging for AOs via B2B	
Users impacted	U08. AO or CFSP U14. Air Navigation Service Provider (ANSP) U0. Other: NM B2B users
Application impacted	A05. Flow management systems (Predict, ETFMS) A11. NM B2B
Objective	Objective of FB1042 is to extend the reception and distribution of the ATFM information into the NM B2B services.
Description	CR_046808: Slot Related Messages on B2B The Annex J of the ATFCM Operations Manual describes the slot related messages generated by NM/AO and exchanged via AFTN/SITA. The information presented into the below messages will be included into the B2B services. Generated by NM: SAM (Slot Allocation Message) SRM (Slot Revision Message) SLC (Slot Cancellation message) FLS (Flight Suspension Message) DES (De-Suspension Message) SIP (Slot Improvement Proposal Message) RRP (Rerouting Proposal Message) RRN (Rerouteing Notification Message) ERR (Error Message) Generated by AOs: REA (Ready Message) and FCM (Flight Confirmation Message) SMM (Slot Missed Message)

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NETWORK MANAGER RELEASE NOTES

	 SPA (Slot Improvement Proposal Acceptance Message) SRJ (Slot Proposal Rejection Message) SWM (SIP Wanted Message (RFI is set to 'no')) RFI (Ready For Improvement (after SWM))
Impact for external users	I3. Impact on users' systems.
Impact description	The input of the SMM, SPA, SRJ, SWM, RFI, REA, RJT type messages will be addressed using the NM B2B Request/Reply service, under a new subtype called ATFMRequest (to be confirmed). The output messages in NM B2B is the P/S services. In particular, the PSFD (Publish/Subscribe Flight Data message) is used to inform the NM B2B users about changes to the flight data, and it already contains most of the flight fields used in the ATFM output messages. The information present in the SAM, SRM, SLC, FLS, DES, SIP, RRP, RRN, ERR will be found under the PSFD. The ETFMS Flight Data (EFD) messages could contain other Event Types like: "RRM", "OAR", "RJT", "RFR", "RSI", "SIP", "SSP", "UCD". This new events mean: RRM (Rerouting Proposal Creation), triggered by a Rerouting Proposal (RRP) or Rerouting Notification (RRN) message, OAR (ATFM Rerouting), RJT (Rerouteing reJecTion (RJT) message; an RJT is a negative response to a Rerouteing Proposal (RRP) message), RFR (Re-route after reroute cancellation), RSI (CASA Revoke slot proposal), SIP (CASA booking (SIP)), SSP (CASA STAM Proposal), UCD (Update MCDM Data). Example: -TITLE EFD -TIMESTAMP 191218020000 -EVENT RRM -EVENTCLASS MSG -FLTSTATE FS
Service reference	Network Manager Business-to-business (B2B) web services
Impact on Services Specifications	S1. The FB will not have any impact on the NM Services Specifications.
Operational deployment plan	D1. FB will be deployed in Operation along with the release migration.
Users' testing	O1: FB1042 is planned to be part of the NM Release OPT (Operational Testing Session)
Documentation publication	ATFCM Users Manual ATFCM Operations Manual NM B2B manuals
I2_118832: Retrie	eving original ADES for diverted flight via B2B
Users impacted	U08. AO or CFSP U14. Air Navigation Service Provider (ANSP) U0. Other: Any B2B user

A11. NM B2B

Application

impacted Objective

Retrieve via NM B2B the original ADES for a diverted flight

Network Manager —

	I2_118832: Retrieving original ADES for diverted flight via B2B
Description	With the I2_118832, a fix is delivered to be able to indicate the original filed aerodrome of destination in case the flights was diverted.
	In the NM B2B Flight service, the flight.flightld.keys. aerodromeOfDestination will contain always the original filed ADES.
	In case of diversion, the below fields will complete the flight information.
•	The flight.flightId.keys.aerodromeOfDestination is always:
	 The original filed ADES.
	The flight.divertedAerodromeOfDestination is always:
	the diverted ADES if the flight was diverted
	o not present if the flight was not diverted
Impact for external users	I3. Impact on users' systems.
Impact description	Content of existing fields will be modified with NM24.0.
Service reference	Network Manager Business-to-business (B2B) web services
Impact on	
Services Specifications	S1. The I2 will not have any impact on the NM Services Specifications.
Operational deployment plan	D1. I2 will be deployed in Operation along with the release migration.
Users' testing	O1: I2_118832 is planned to be part of the NM Release OPT (Operational Testing Session)
Documentation publication	NM B2B manuals

FB1059: ATFCM	Domain improvements
	U1. Flow Manager (FMP)
	U3. Airspace User (Civil)
	U8. AO or CFSP
	U9. CAA, EASA
Users impacted	U10. Non-CDM Airport
	U13. CDM-Airport
	U15. Advanced ATC TWR Airport
	U12. Internal NM
	U14. Air Navigation Service Provider (ANSP)
	A1. CHMI
A li	A2. CIFLO, CIAO, CITO
Application impacted	A5. Flow management systems (Predict, ETFMS)
impacted	A10. NOP Portal
	A11. NM B2B
	Objective of FB1059 is to indicate the diversion of a flight if a different aerodrome of destination (from the original filed aerodrome of destination) is received in the CPR
Objective	(Correlated Position Report) messages.
	FAM mechanism parameter will also be reduced.

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	CR_046613: Flag diverted flights from the CPRs information
	Today, the diversion is indicated and shared only after a Div_ACH or a Div_ARR is received (messages received by IFPS and forwarded to ETFMS).
	Not all ATM systems are able to send Div_ACH. Therefore, in most of the cases the diversion is already indicated directly through the FSA/CPRs received directly on ETFMS.
	With NM24.0, ETFMS is able to identify the different ADES (compared with the original filed ADES) from the CPR messages and set the flight as diverted. The diversion will be visible on CHMI and NOP applications and provided via NM B2B webservices.
	Reminder: in CHMI and NOP applications, the Flight List could indicate the diversion in the "D" column (by the sign '>'). As well, in case of diversion, the Flight Data will contain the diverted aerodrome (under 'ADES' field) and the original filed ADES (under the 'Filed ADES' field).
	CR_045506: FAM reduction
Description	The Flight Activation Monitoring (FAM) mechanism parameter for suspension of:
	Flights departing from FAM-enabled areas,
	Or flights departing from non FAM-enabled areas and less than three hours of Estimated Elapsed Time (EET) with a destination/crossing a FAM-enabled areas,
	will be reduced by 5 minutes; from 20 minutes to 17 minutes (15 minutes as alignment with ICAO regulation, and 2 minutes as buffer for message propagation time).
	The stepped reduction of the parameter was decided at ODSG/41 to support flight planning and predictability in the European ATM Network.
	The change is aligned with ICAO: any changes to the EOBT of more than 15 minutes for any IFR flight within the IFPZ shall be communicated to the IFPS. (ICAO Doc 7030, 2.3.2.1).
	This implementation is the third step of the parameter reduction. Further information can be found at: https://www.eurocontrol.int/function/flight-activation-monitoring
	CR_046613: Flag diverted flights from the CPRs information
Impact for	I0. No impact.
external users	CR_045506: FAM reduction
	I1. Impact on procedures.
	I3. Impact on users' systems.
	CR_046613: Flag diverted flights from the CPRs information
	The diversion will be triggered by the reception of the Div_ACH, Div_ARR and, with NM24.0, by the information received in the CPRs when the ADES will differ from the original filed ADES.
luon o ot	CR_045506: FAM reduction
Impact description	CR_045506 may have possible impact on flights departing from FAM-enabled areas or of flights departing from non-FAM-enabled areas and less than three hours of Estimated Elapsed Time (EET) with a destination/crossing a FAM-enabled areas that are not
	reported as airborne. Such flights will be shifted in their CTFM by 5-minute steps three times and will be eventually suspended after another 2 minutes if not reported as airborne (FSA, CPR message received by the NM). FMPs, airports and AOs should be advised of
	the change and ensure that adequate operational actions are taken.
Service reference	Flight plan filing and management Reception and distribution of real-time airport, air traffic control and surveillance data
1010101100	
Impact on Services Specifications	S1. The FB will not have any impact on the NM Services Specifications.

Network Manager —

Users' testing	O1: FB1059 is planned to be part of the NM Release OPT (Operational Testing Session)
Documentation publication	ATFCM Users Manual ATFCM Operations Manual DPI Implementation Guide IFPS Users Manual Flight Progress Messages Document

T B 1000. CHCIPB	esk improvements
	U01. Flow Manager (FMP)
	U07. Post-ops analyst U08. AO or CFSP
	U10. Non-CDM Airport
Users impacted	U12. Internal NM
	U13. CDM-Airport
	U15. Advanced ATC TWR Airport
Application	013. Advanced ATO TWIT All port
Application impacted	A05. Flow management systems (Predict, ETFMS)
Objective	Following the successful implementation of the eHelpDesk service with NM23.0 and NM23.5, NMOC is continuing to improve the eHelpDesk service. Main objective is to digitalize the incoming requests to the NMOC that will lead to a better service and more time for NMOC to focus on network critical issues.
	With last summer changes, the number of phone calls to the NMOC has significantly decreased, and the outcome is more availability of the phone line for critical requests. With NM24.0, Airline Operators will have the possibility to flag their flights as critical which will ensure that they will be highlighted to the NMOC staff.
	Flights in Ready status will be highlighted while in the queue.
	CR_047330: Flight Criticality indicator
Description	Airline operators will have the possibility to flag eHelpDesk request as critical. Critical requests will not be subject to automatic processing rules, and will be highlighted to the NMOC staff when processing. Critical requests will be highlighted with the magenta color on the NOP flight list and eHelpDesk queue. Airline operator will have a limited number of these requests per flight and per day, subject to Network constraints, depending on the number of regulated flights in the system.
	CR_047008: Highlighting of REA flights. Flights that are in "Ready" status will be marked in the details area of the eHelpDesk request (only HMI impact, these requests will be processed as any other).
	Minimum take-off time provision
	eHelpDesk users will be able to provide the earliest take off time that they can achieve and help the operator when finding the most suitable improvement. This can increase the likelihood of getting the improvement and reduce the time of response.
Impact for	I1. Impact on procedures.
external users	I2. Impact on Human-Machine interface.
Impact description	Mostly HMI impact (highlighting REA and critical flights), but also new input mechanism for highlighting of the critical flights. They will be further explained during the NMOC release presentation and later versions of NM release notes.
Service reference	Network Operations Portal

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Impact on Services Specifications	S1. The FB will not have any impact on the NM Services Specifications.
Operational deployment plan	D1. FB will be deployed in Operation along with the release migration.
Users' testing	O1: FB1085 is planned to be part of the NM Release OPT (Operational Testing Session)
Documentation publication	ATFCM Users Manual ATFCM Operations Manual NOP Portal Users Guide

CR_047018: Del	ete old group rerouting indicators from a flight when applying a similar group
Users impacted	U3. Airspace User (Civil) U8. AO or CFSP
Application impacted	A1. CHMI A10. NOP Portal
Objective	The objective of this CR is to improve the alerting of GRRT users when the tool calculates an alternative route in scheduled runs.
Description	Before NM24.0 Release, information stored in the OPP column of the CHMI or NOP Portal flight lists was not reflecting the latest (scheduled) GRRT calculation. Whenever GRRT would identify an alternative route, this information would be stored presented in CHMI or NOP Portal OPP column. However, if in the following run(s) no alternative route was found, OPP column would still keep indication generated in the previous run in which an alternative was highlighted. With this improvement, the user will only see the latest (best) outcome of the GRRT calculations. NOTE: CHMI Archive data will store only the last status of the OPP column.
Impact for external users	I0. No impact.
Impact description	This CR will improve the user experience by providing more up to date GRRT calculations in the CHMI or NOP Portal.
Service reference	Collaboration Human Machine Interface Network Operations Portal
Impact on Services Specifications	S1. The FB will not have any impact on the NM Services Specifications.
Operational deployment plan	D1. CR will be deployed in Operation along with the release migration.
Users' testing	O1: CR_047018 is planned to be part of the NM Release OPT (Operational Testing Session)

Documentation

publication

Network Operations - Flight Efficiency User Manual

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NETWORK MANAGER RELEASE NOTES

5 Release NM24.0.1

5.1 Important notifications related to NM24.0.1 migration

5.1.1 Browsers compatibility

Browsers recommended in NM24.0.1:

- FireFox,
- Chrome.

For these recommended browser brands, NM undertakes to investigate and attempt to resolve problems that can be reproduced on the latest stable version of that brand (anything else is on a "best efforts" basis).

Please note that Internet Explorer is not supported anymore as from NM24.0, hence neither for NM24.0.1.

5.1.2 Operating Systems compatibility

The recommended operating system is Windows 10. Issues reported on CHMI using Windows 7 will be fixed on a best effort basis.

5.1.3 NM B2B

NM24.0.1 will not deploy any new B2B version – no change as compared to NM 24.0.

Migration 5.2

Deployment Plan	2020											
Deployment I lan			М	Α	М	J	J	Α	S	0	N	D
Release NM24.0.1												
Presentation of NM24.0.1 to externals*												
Start of migration											10	

^{*} No presentation of NM24.0.1 is foreseen to externals

5.2.1 **Network Operations Handbook**

There is no impact of this release on the Network Operations Handbook.

- The NM Network Operations library: https://www.eurocontrol.int/library?f%5B0%5D=activity%3A774
- The Public and Restricted NOP Portal ("Network Operations Handbook" portlet): https://www.public.nm.eurocontrol.int/PUBPORTAL/gateway/spec/index.html

5.2.2 **Presentation to Externals**

No presentation of NM24.0.1 to externals is foreseen.

5.2.3 **OPT** session

No OPT session is foreseen for NM24.0.1.

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NETWORK MANAGER RELEASE NOTES

5.3 NM24.0.1 migration plan

The migration of NM systems from NM24.0 to NM24.0.1 will take place on the 10/11/2020 and should last a few hours. NM shall issue more detailed information in time.

The migration of NM systems from NM24.0 to NM24.0.1 will take place on the 10/11/2020, from 22h00 to 23h30 UTC.

- Regarding CHMI:
 - o No change in CHMI: no new CHMI version to download
 - o CHMI will be interrupted on 10/11/2020, from 22h00 to 23h30 UTC
- NES:
 - o NES (n-CONECT) will be interrupted on 10/11/2020, from 22h00 to 23h30 UTC

5.4 Release NM24.0.1 content

5.4.1 Important Notification: New URL to NES (n-CONECT)

This notification concerns only NES (n-CONECT) users, namely RAD users.

The current URL to NES (n-CONECT) is: https://b2c.nes.nm.eurocontrol.int.

For technical reasons, this URL has posed and keeps posing a number of cookie and logon/logoff issues.

In order to avoid these technical issues, a new URL to NES (n-CONECT) is provided with NM24.0.1: https://b2c.nm.eurocontrol.int.

However, the old URL will remain available after NM24.0.1 migration, with the known technical issues.

Consequently, NM recommends to start making use of the new URL to NES (https://b2c.nm.eurocontrol.int) from 11/11/2020 onwards.

5.4.2 n-CONECT

FB1112: Alignment of Information Regions Worldwide					
Users impacted	U8. AO or CFSP				
Application impacted	A15. n-CONECT: AIRSPACE@NES				
Objective	Improve the accuracy of Information Regions worldwide, and align with EAD, with the purposes of fine-tuning the timing element of the NM flight profiles, and of enabling the distribution of departure messages worldwide by NM in a future release.				
Description	Information Regions (and other airspaces like OTA (Oceanic Transition Areas)) will be downloaded from EAD worldwide, and the CACD data will be updated accordingly (using human-attended but automated tool).				
Impact for external users	No application change. Only the Information Regions (FIR, UIR,) and OTA data will become more accurate outside the IFPZ.				
Impact description	See above				
Service reference	N/A				
Impact on Services Specifications	S1. The FB will not have any impact on the NM Services Specifications.				
Operational deployment plan	D1. FB will be deployed in Operation along with the release migration.				
Users' testing	N/A				
Documentation publication	N/A				

6 Release NM24.5

No NM24.5 release will take place.

According to the NM B2B policy regarding the NM B2B services lifecycle, the NM22.5 B2B services should have been decommissioned with NM24.5. Exceptionally, in the absence of a NM24.5 release, the NM22.5 B2B services will remain deployed until NM25.0 (April 2021).

In the absence of the NM24.5 release, there is no new application or application change, e.g. no new CHMI, no change in NOP Portal, ... in that release.

Documentation

Network Operations Handbook				
Network Operations library	https://www.eurocontrol.int/library?f%5B0%5D=activity%3A774			
ATFCM Users Manual	https://www.eurocontrol.int/publication/atfcm-users-manual			
ATFCM Operations Manual	https://www.eurocontrol.int/publication/atfcm-operations-manual			
NM B2B documentation	https://ost.eurocontrol.int/sites/B2BWS/default.aspx Registration required - contact NM.servicerequests@eurocontrol.int			
NM B2B Write access criteria	https://ost.eurocontrol.int/sites/B2BWS/Shared%20Documents/8%20- %20Operational%20Deployment%20Process%20- %20Documentation/WRITEServiceDocumentationSet.pdf			
CCAMS User Manual	https://www.eurocontrol.int/publication/ccams-user-manual			
IFPS Users Manual	https://www.eurocontrol.int/publication/ifps-users-manual Flight Plan guide: https://contentzone.eurocontrol.int/fpl/default.aspx			
Flight Plan Guide and IFPS errors guide	https://contentzone.eurocontrol.int/fpl/default.aspx			
NMIR Users Guide	https://www.eurocontrol.int/publication/nmir-users-guide			

ABBREVIATIONS 8

ACC3	Air Cargo or Mail Carrier operating into the Union from a Third Country Airport
A-CDM	Airport-Collaborative Decision Making
ACH	ATC flight plan Change
ACK	IFPS Acknowledgement Message
AD	Airspace Data
ADES	Aerodrome of Destination
A-DPI	Airport-Departure Planning Information
AFP	ATC Flight Plan
AFTN	Aeronautical Fixed Telecommunication Network
AFUA	Advanced Flexible Use of Airspace
AIRAC	Aeronautical Information, Regulation and Control
AIS	Aeronautical Information Services
AIXM	Aeronautical Information Exchange Model
AMAN	Arrival Manager
AMC	Airspace Management Cell
ANSP	Air Navigation Service Provider
AO	Aircraft Operator
AOP	Airport Operations Plan
AOWIR	Aircraft Operator What-if Reroute
API	Arrival Planning Information
APL	ATC Flight Plan
APOC	Airport Operations Centre
ARO	Air Traffic Services Reporting Office
ARR	Arrival Message
ASM	Airspace Management
ATC	Air Traffic Control
ATFCM	Air Traffic Flow and Capacity Management
ATFM	Air Traffic Flow Management
ATM	Air Traffic Management
ATS	Air Traffic Services
AU	Airspace User
AUP	Airspace Use Plan
B2B	Business-to-Business
B2C	Business-to-Consumer
CAA	Civil Aviation Authority
CACD	Central Airspace and Capacity Database (new name of ENV)
CADF	ECAC Centralized Airspace Data Function
CAP	Collaborative Advance Planning (DSNA tool)
CASA	Computer Assisted Slot Allocation

Network Manager -

CCAMS	Centralised SSR Code Allocation & Management
CDM	Collaborative Decision Making
C-DPI	Cancel-Departure Planning Information
CFSP	Computerised flight plan service provider
CHG	Modification Message
CHMI	Collaboration Human Machine Interface
CIAM	Collaboration Interface for AMCs
CIAO	Collaboration Interface for AO
CIFLO	Collaboration Interface for Flow management position
CITO	Collaboration Interface for Tower
CNL	Cancellation Message
CNS	Communications, Navigation, Surveillance
COVID-19	Coronavirus Disease 2019
CPA	Collaboration Portal Application
CPR	Correlated Position Report
CR	Change Request
CSST	Call-Sign Similarities Tool
CTFM	Current Tactical Flight Model
CTM	Cooperative Traffic Management
СТОТ	Calculated Take-Off Time
CUA	Common User Access
DCT	Direct Route
DES	De-Suspension Message
DLA	Delay or Delay Message
DLE	Delay or holding on route
DPI	Departure Planning Information
DSNA	Direction des Services de Navigation Aérienne
DWH	Data Warehouse system
EAIMS	European ATM Information Management Service
EASA	European Union Aviation Safety Agency
EDDP	Leipzig Halle Airport
EET	Estimated Elapsed Time
EFD	ETFMS Flight Data
eFPL	FF-ICE flight plan
EGCC	ICAO code for Manchester airport
EGKK	ICAO code for London Gatwick airport
ENV	NM Environment System (former name of CACD)
EOBT	Estimated Off Block Time
ERR	Error Message
ETFMS	Enhanced Tactical Flow Management System
EUROCONTROL	European Organization for the Safety of Air Navigation

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EUUP	European Update airspace Use Plan
FAAS	Flight Assessment and Alert System
FAM	Flight Activation Monitoring
FB	Functional Block
FCM	Flight Confirmation Message
FF-ICE	Flight and Flow Information for a Collaborative Environment
FL	Flight Level
FLS	Flight Suspension Message
FMP	Flow Management Position
FPFDE	Flight Plan and Flight Data Evolution
FPL	Flight Plan message (ICAO format)
FPP	Flight Plan Processing
FRA	Free Route Airspace
FSA	First System Activation message
FUA	Flexible Use of Airspace
GAI	General Arrival Planning Information
GRRT	Group Re-Routing Tool
HMI	Human-Machine Interface
12	Incident Type 2
IAF	Initial Approach Fix
IAP	Instrument Approach Procedure
IATA	International Air Transport Association
ICAO	International Civil Aviation Organization
ID	Identifier
iDAP	Integrated Digital ATFCM Platform
IFPS	Integrated Initial Flight Plan Processing System
IFPUV	IFPS Unit for Validation
IFPZ	IFPS Zone
IFR	Instrument Flight Rules
IR	Implementing Rule
M&R	Monitoring and Reporting
MCDM	Measure Collaboration Decision Making
MIN	Minimum
MSG	Message
NCAP	Network Collaborative Advance Planning (DSNA tool)
NCO	n-CONECT
n-CONECT	network-COmmoN Enhanced Collaborative ATM
NES	n-CONECT Eco System
NM	Nautical Mile
NM	Network Manager
NMD	Network Manager Directorate

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NMIR	NM Interactive Reporting
NMOC	Network Manager Operations Centre
NMVP	Network Manager Validation Platform
NOP	Network Operations Plan
NOP	Network Operations Portal
NPP	Network Performance Plan
NPZ	No Planning Zone
NRC	National RAD Coordinator
NSP	Network Strategy Plan
OAI	Target Time-Over Arrival Planning Information
OAR	ATFM Rerouting
OAT	Operational Air Traffic
ODSG	Operations and Development Sub-Group
OPP	Opportunity
OPS	Operations
OPT	Operational testing
ORGN	Originator
P/S	NM B2B Publish/Subscribe
PC	Personal Computer
PC	Provisional Council
PDI	Predicted Departure Planning Information
P-DPI	Predicted DPI
PREDICT	Variant of TACT used for Pre-Tactical Work
PSFD	Publish Subscribe Flight Data (NM B2B)
R&D	Research and Development
RAD	Route Availability Document
REA	Ready Message
RFI	Ready For Improvement Message
RFR	Re-route after reroute cancellation
RJT	Rerouteing Rejection message
RQS	Requested Supplementary Information Message
RRM	Rerouting Proposal Creation
RRN	Rerouteing Notification Message
RRP	Rerouting Proposal Message
RSA	Restricted Airspace
RSI	CASA Revoke slot proposal
RWY	Runway
SAFA	Safety Assessment of Foreign Aircraft (Programme)
SAM	Slot Allocation Message
SES	Single European Sky
SESAR	Single European Sky ATM Research

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SID	Standard Instrument Departure
SIP	Slot Improvement Proposal Message
SITA	Société Internationale de Télécommunications Aéronautiques
SLC	Slot Cancellation message
SMM	Slot Missed Message
SO	Strategic Objective
SPA	Slot Improvement Proposal Acceptance Message
SRJ	Slot Proposal Rejection message
SRM	Slot Revision Message
SSP	CASA STAM Proposal
STAM	Short-Term ATFM Measures
STAR	Standard Terminal Arrival Route
SWIM	System-Wide Information Management
SWM	SIP Wanted Message
TAI	Target Take-Off Arrival Planning Information
TCF	Transponder Code Function
TLP	Traffic Light Protocol
TTOT	Target Take Off Time
TWR	Aerodrome Control Tower
UCD	Update MCDM Data
UTC	Coordinated Universal Time
UUP	Updated Airspace Use Plan
VFR	Visual Flight Rules



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